

ABSTRACT

A PSIP converter includes: a protocol data extractor, a protocol data converter, a protocol data inserter, and a system controller. The protocol data extractor is configured for demultiplexing a terrestrial broadcasting TS or a satellite broadcasting TS, and extracting audio/video data and PSIP/PSI data or audio/video data and SI/PSI data from the terrestrial broadcasting TS or and audio/video data and SI/PSI data from the satellite broadcasting TS, respectively. The [[; a]] protocol data converter is configured for converting for using the PSIP/PSI data or the SI/PSI data into to generate PSIP/PSI data of a corresponding digital cable television broadcasting standard. The [[; a]] protocol data inserter is configured for inserting the digital cable television broadcasting standard PSIP/PSI data into the audio/video data extracted by the protocol data extractor through TS multiplexing, and generating a digital cable broadcasting TS. The ; and a system controller is configured for checking the protocol data extractor, the protocol data converter, and the protocol data inserter, and controlling their operation.